

### REMARKS

By this Amendment, claims 1 – 4, 9, 11 – 13, and 15 are amended. Claim 18 is canceled.

#### A. Allowed claims 9 - 14

Claims 9 – 14 were allowed by the previous Office Action.

Claims 9 and 10 are amended to define terms used in the equations, as requested by the Examiner, to overcome claim objections to these claims. Support for this amendment is found at page 4, lines 15 – 27. Hence, claims 9 – 14 are allowable.

#### B. Claims 1 – 8.

Claims 1 – 4, 7, and 8 stand rejected under 35 USC 102(e) as anticipated by Diaz et al. (US 6,512,494, hereinafter “Diaz”).

Claims 5 and 6 stand rejected under 35 USC 103(a) as being unpatentable over Diaz in view of Church et al. (US 2003/0076276, hereinafter “Church”).

Claim 4 was objected to, for improper used of the indefinite article “a”.

Regarding claims 1 – 8, claim 1 is amended to recite the form of equation used in the allowed claims 9 and 10. Claim 2 is amended to recite the equation used in claim 9, and claim 3 is amended to recite the equation used in allowed claim 10. Claim 4 is amended to correct an informality objected to by the Examiner. These equations are not found in Diaz or Church. Support for these amendments is found in as-filed claims 9 and 10, and equations 6 and 7 on Application page 5.

Hence, claims 1 – 8 are allowable.

#### C. Claims 15 – 21

Claim 18 is canceled.

Claims 15 – 16, and 20 – 21 stand rejected under 35 USC 102(e) as anticipated by Diaz.

Claims 15 – 16, and 20 – 21 stand rejected under 35 USC 102(e) as being anticipated by Wilhelm et al. (US 2003/0142036, hereinafter “Wilhelm”).

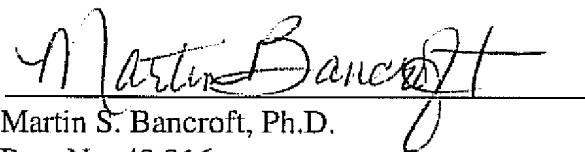
Claim 19 is rejected under 35 USC 103(a) as being unpatentable over Wilhelm in view of Wu (US 6,608,607, hereinafter “Wu”).

Regarding claims 15 -17 and 19 -21, claim 15 is amended to describe a structure having a surface impedance determined using the equation form described in allowed Claims 9 and 10. This equation is not described in the references. Support for these amendments is found in as-filed claims 9 and 10, and equations 6 and 7 on Application page 5. Hence claims 15 -17 and 19 -21 are allowable.

Regarding claim 17, this claim is amended to refer to the structure providing an permeability response equivalent to that of a perfect electrical conductor backed ferrite film (PEC-backed ferrite film) at a frequency greater than 1 GHz. Wilhelm discloses a structure including ferrite materials (e.g. para. 73), but not a structure having the response of a PEC-backed ferrite film. Diaz discloses an AMC characterized by a two-layer effective media model, but does not disclose a structure having the response of a PEC-backed ferrite film. Hence, the features of claim 17 are not disclosed in the cited references. Support for this amendment is found, for example, at page 5, line 24 – page 6, line 2. Hence this claim is allowable.

Based on the above amendments and remarks, allowance of all claims is respectfully requested.

Respectfully submitted,

By: 

Martin S. Bancroft, Ph.D.

Reg. No. 43,316

Gifford, Krass, Sprinkle, Anderson &  
Citkowski, PC

PO Box 7021

Troy, MI 48007-7021

(734) 913-9300 FAX (734) 913-6007

Date: April 17, 2007